Santoprene: Applications in Window Construction

In weather-stripping windows, thermoplastics have been proven to be the best material to use. One product that stands out is Santoprene, a trademark owned by Exxon Mobil. This thermoplastic rubber exhibits excellent properties that are truly ideal for use in window seals.

Santoprene provides construction project managers the option to adopt quality without crippling the budget for window seals and gaskets.

Production

Santoprene is a thermoplastic elastomer made by cross-linking EPDM rubber and polypropylene. The material can be produced in the same way as other plastics are made by plastic manufacturers.

The material can be blow moulded, injection moulded or it can be teleformed. Santoprene is produced using the same tools used to form other thermoplastic materials. Since Santoprene is a thermoplastic material, it can be recycled once it has reached the end of its life span.

Properties

Santoprene combines durability and flexibility that make it ideal for use in window construction. Santoprene elastomer has the same properties found in natural rubber materials. However, it is regarded to be much better to use in window sealing because it lasts longer than rubber.

Santoprene has also been found to be very resilient when subjected to extremely hot or cold temperatures. The material has also been seen to perform as well as EPDM (ethylene propylene diene monomer) when it comes to electrical properties and resistance against environmental aging. Just like EPDM, Santoprene is also highly liquid resistant.

Santoprene is also as good as neoprene when it comes to chemical resistance. Similar to neoprene, it is highly resistant to different chemicals, including alcohols, ketones, esters and other solvents.

Glazing Gaskets

Santoprene is ideal to use as glazing gaskets for windows because of its low production and installation cost and the properties it contains. Santoprene provides project managers a more cost-efficient option of adopting high quality in window sealing.

EPDM and neoprene are both thermoset rubbers, which are more costly to produce. Santoprene has been tested and has been proven to be a better alternative to those thermoset rubbers.

Santoprene elastomer is in high demand for weather stripping because of its durability and low cost. When used as window seals, Santoprene rubber is very effective in protecting the window glass from outside forces.

The thermoplastic material is also very effective protecting the interiors from rainfall runoff by tightly sealing the edges of the windows. Air quality inside is also kept intact with the help of proper sealing, courtesy of Santoprene-made glazing gaskets.

Santoprene is a very good material to use for window installation. The material's low production cost and its high quality are the top reasons why project managers are choosing Santoprene over other rubber materials. If you want to learn more about Santoprene applications, click here.

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